

Engaging Cleveland's most vulnerable communities in climate action and resilience



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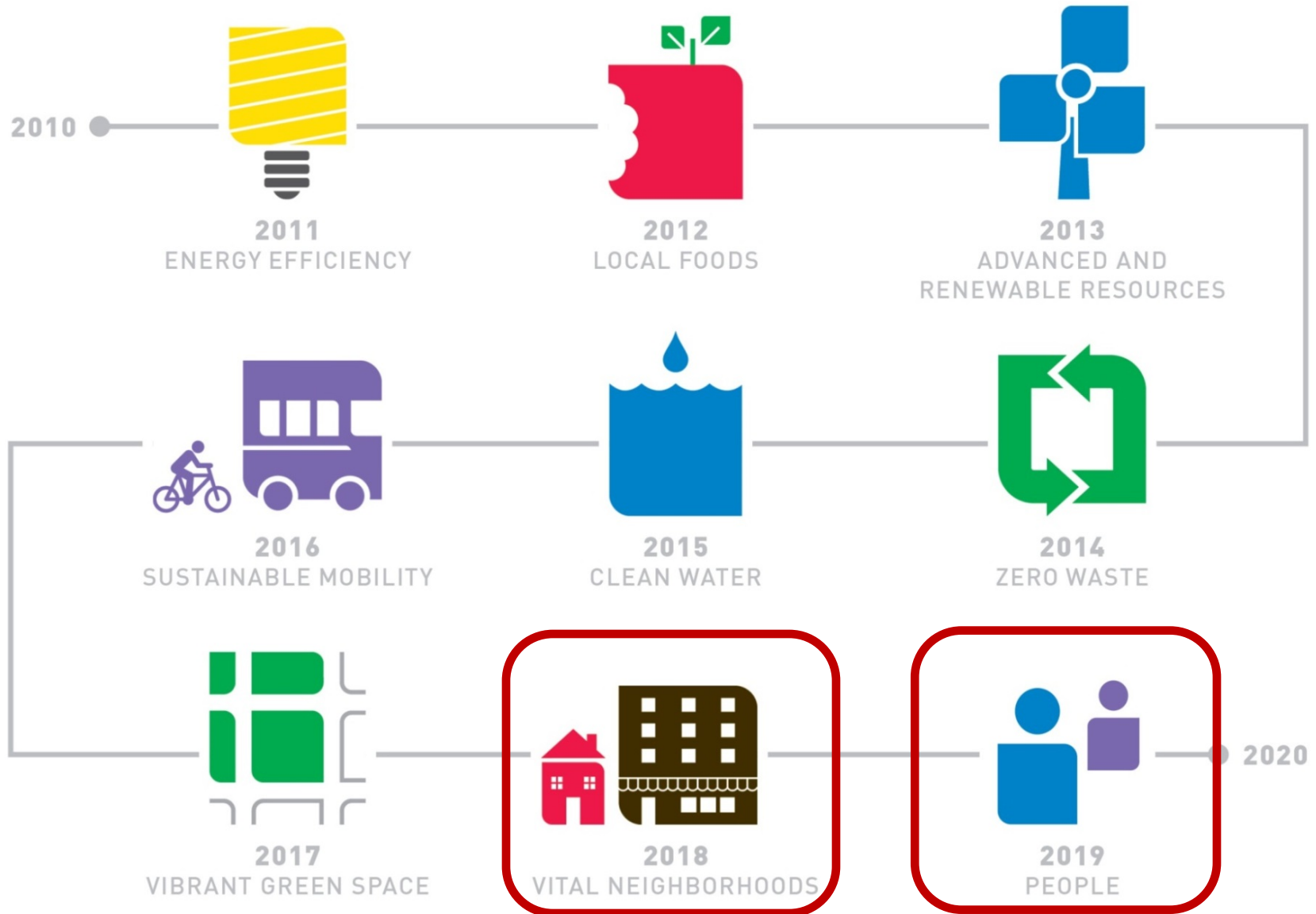


Celebrating 10 Years. Building the Future.



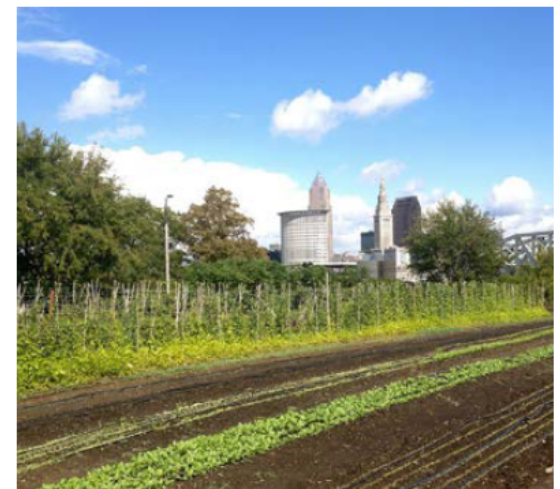
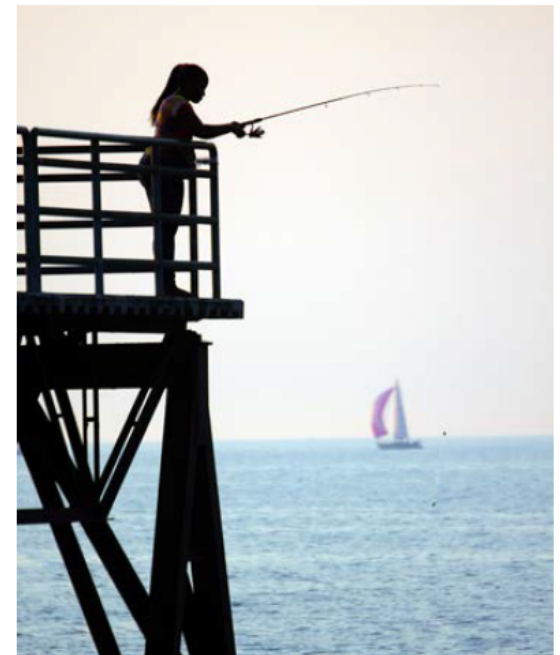
**SUSTAINABLE
CLEVELAND 2019**

Celebration Topics



Cleveland Climate Action Plan Update

- **Partners for Places Equity grant**, match from Gund Foundation
- **Project Goal:** Improve outcomes in health, access to green jobs, resiliency, and engagement through equitable climate action planning and implementation
- **Timeline:** August 2017 – Sept 2018



CORE COMMUNITY PARTNERS

Cleveland
Neighborhood
Progress



RESILIENT
CLEVELAND



TECHNICAL ASSISTANCE

REI
racialequityinstitute, llc

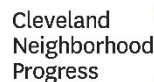
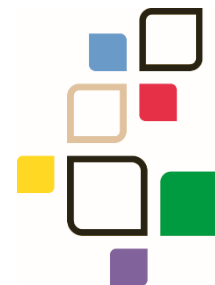


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Do Good. Do Well. Win.™

CLIMATE ACTION ADVISORY COMMITTEE



Building a World of Sustainable Communities





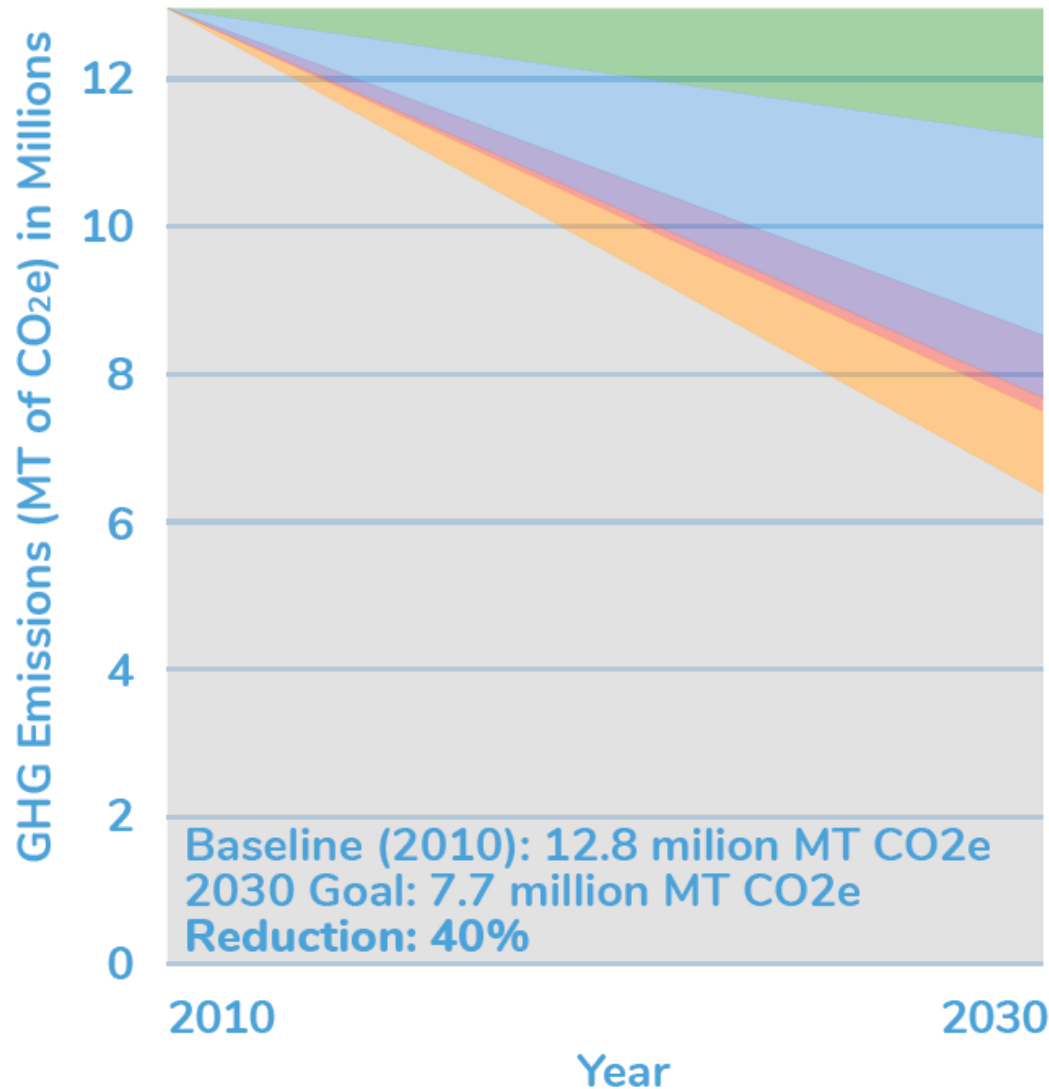
80%:
Cleveland's
Greenhouse Gas
reduction goal by
2050

At the heart of climate action in Cleveland is building thriving and healthy neighborhoods throughout the city. **The 2013 Cleveland Climate Action Plan established an overarching greenhouse gas (GHG) reduction goal of 80% below 2010 emissions by 2050, with interim goals of 16% reduction by 2020 and 40% reduction by 2030.** These goals are designed to be bold yet achievable. This updated plan retains those overarching goals.

Climate Change Mitigation: Reducing GHG emissions and lessening impacts from additional warming of the atmosphere.

Climate Change Adaptation: Preparing for the impacts of an already changing climate.

Figure 2: Process for Achieving Our 2030 Goals by CAP Focus Area



Reduction by Focus Area:



1.6 million MT CO₂e



2.5 million MT CO₂e



.4 million MT CO₂e



<0.1 million MT CO₂e *



<0.1 million MT CO₂e *



0.6 million MT CO₂e

*Actions in these two focus areas tend to improve resilience rather than reduce emissions



ENERGY EFFICIENCY
& GREEN BUILDING



CLEAN ENERGY



SUSTAINABLE
TRANSPORTATION



CLEAN WATER AND
VIBRANT GREEN SPACE



MORE LOCAL FOOD,
LESS WASTE



CROSS-CUTTING
PRIORITIES

- 1 Make more homes affordable, comfortable, healthy, and energy efficient



- 2 Prioritize energy efficiency in small and mid-size businesses



- 3 Support community hubs to be more efficient and resilient



- 4 Promote new construction and major renovations that meet high green building standards



- 5 Generate more solar energy locally



- 6 Improve access to affordable clean energy for residents and small organizations



- 7 Reduce industrial emissions with advanced technologies



- 8 Establish an offshore wind industry in Northeast Ohio



- 9 Use advanced technology to build a cleaner, safer, smarter city



- 10 Support clean energy policy



- 11 Make it easier to drive cleaner vehicles



- 12 Build streets that prioritize safety for all



- 13 Increase use of public transit through regional collaboration



- 14 Make Cleveland a premier cycling city



- 15 Continue to green Cleveland's ports



- 16 Update land use codes to foster health, equity and sustainability



- 17 Implement the Cleveland Tree Plan to grow and maintain a healthy urban forest



- 18 Scale up stormwater management



- 19 Improve water quality and conservation



- 20 Reduce dumping through sustainable vacant land reuse



- 21 Improve access to clean and safe public parks



- 22 Encourage waste reduction and diversion in homes and businesses



- 23 Reduce food waste and hunger



- 24 Enhance the local food system and resident access to high quality, affordable, healthy food



- 25 Improve resilience to climate change and other impacts



- 26 Advance green jobs through workforce development



- 27 Support and recognize local businesses taking climate action



- 28 Engage residents to advance equity in climate action







CROSS-CUTTING PRIORITIES

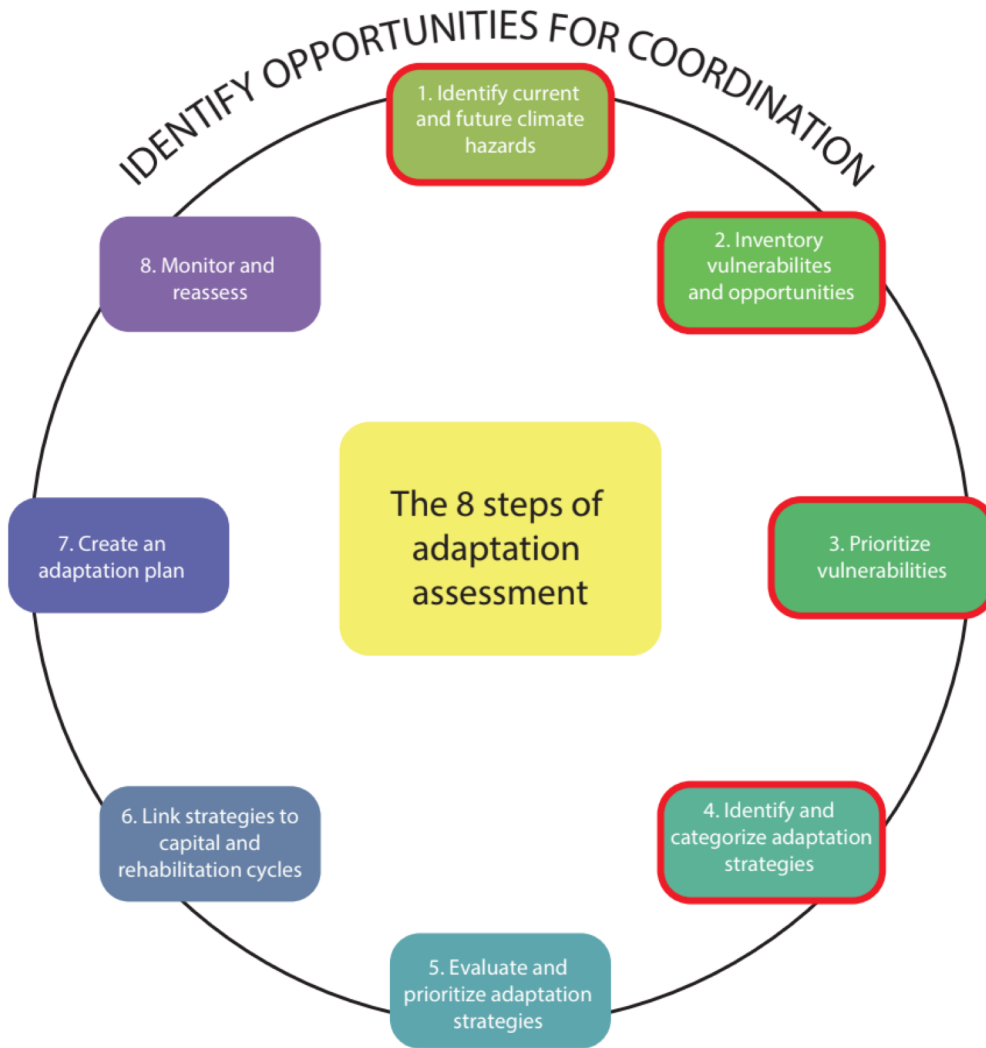
**Cross-cutting objectives
represent priorities to be
addressed throughout the
CAP across all focus areas.**

They include:

-  **25** Engage residents to advance equity in climate action
-  **26** Advance green jobs through workforce development
-  **27** Support and recognize local businesses taking climate action
-  **28** Improve resilience to climate change and other impacts

-  **Social & Racial Equity**
-  **Good Jobs, Green Jobs**
-  **Climate Resilience**
-  **Business Leadership**

VULNERABILITY = Exposure & Sensitivity

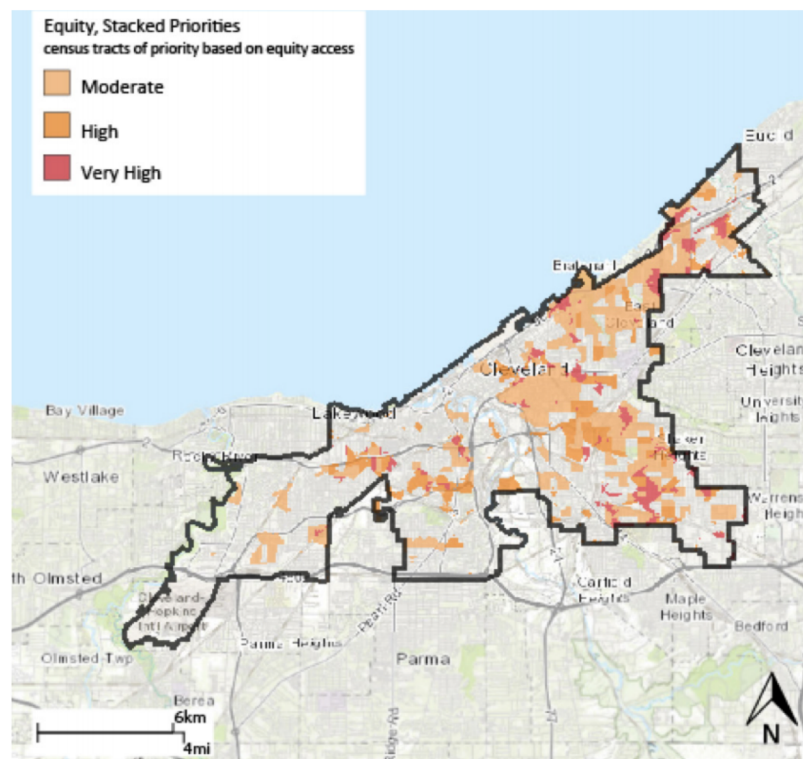


The six socioeconomic characteristics that have been utilized for this assessment to identify local vulnerability include:

- Non-white Population
- Poverty
- Age
- Housing Composition
- Educational Attainment
- Disability Status

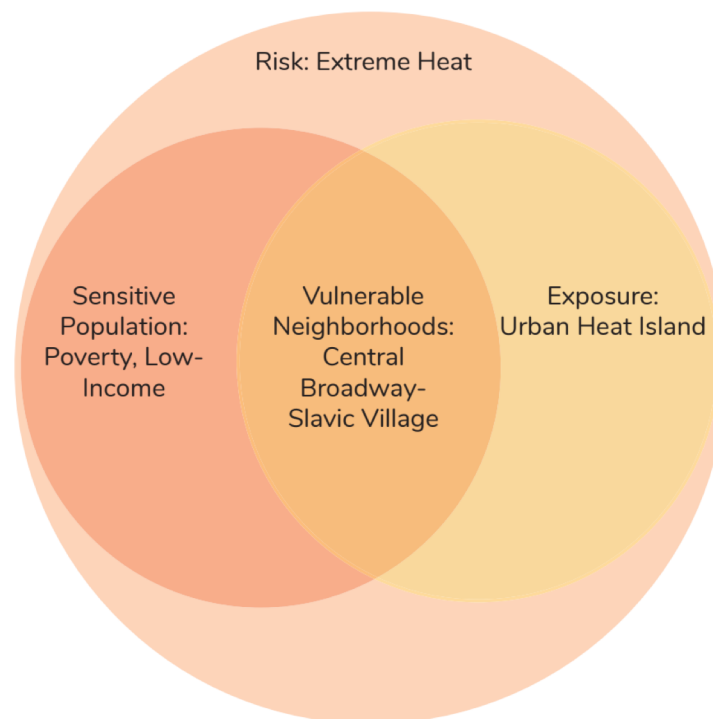
- Heat
- Flooding
- Air Quality

health. “Equity” priorities—relating to greenspace connectivity, minorities, low-income households, renters, and age—are prevalent throughout Cleveland (Figure 13).



Left: Figure 13, Equity, Stacked Priorities, Cleveland, Ohio

Note: The “stacked priority” of each bucket category identifies those census tracts in the city that are of “very high,” “high,” and “moderate” priority for indicator-oriented intervention.



This Venn Diagram is just one way to visually present cumulative impacts. It also exemplifies how data can be used to identify Cleveland’s vulnerabilities, prioritize them, and match each neighborhoods to objectives of the 2018 CAP update.

Neighborhood Workshops

ENGAGEMENT PROCESS



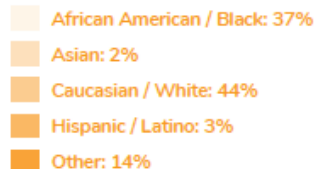
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CAP update workshops held throughout the City of Cleveland with more than

300
attendees



Workshop Participants



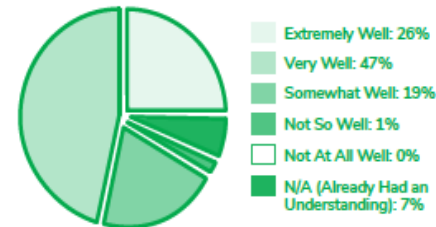
Cleveland is truly a city of neighborhoods. Lasting climate action requires planning, engagement, and implementation at the neighborhood level.

Learn More. Say More. Do More: Workshops on Health, Community and Climate Action provided a key engagement platform for the Climate Action Plan (CAP) update process. Over six months and 12 workshops, more than 300 attendees voiced priorities for themselves, their family, and neighborhood. These priorities were then connected to climate action. At each workshop, facilitators and participants alike represented Cleveland's diverse population and worked together to identify priorities. Many resident priorities are seen in the CAP through objectives that address:

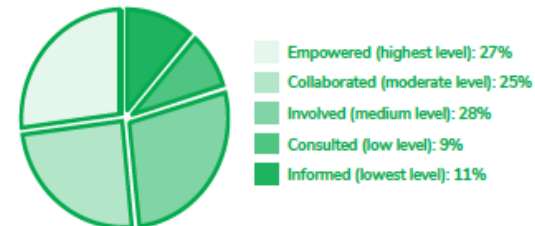
- Vacant land and illegal dumping
- Access to quality, affordable, and healthy food
- Programming needs to help residents save money on energy costs
- Gaps in connecting residents to industries where green jobs are most likely to be found
- Safety issues related to transportation, mobility, and parks
- Youth engagement and the role of education in climate action and resilience



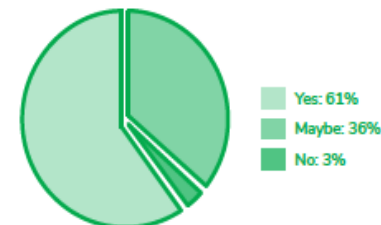
Q: How well do you understand climate change after attending the workshop?



Q: As a result of attending the workshop, how engaged do you feel in the Climate Action Plan and efforts of the City and partners to ensure neighborhood priorities are included in the process?



Q: After attending the workshop are you inspired to do a project?



Each workshop dedicated time to supporting resident projects through the ioby crowd-sourcing platform and Cleveland Climate Action Fund grants.

The Cleveland Climate Action Fund Crowd-Funding Challenge presented at the workshops inspired over 40 neighborhood projects including (but not limited to): tree plantings, composting of food waste, installations of solar panels, re-activating vacant land, and capturing stormwater. More than half of the project leaders successfully met fundraising goals and received matching dollars through the Cleveland Climate Action Fund. At the end of both rounds of crowd-funding, approximately \$120,000 was invested in neighborhood-based climate action projects across the city, which includes \$50,000 of Cleveland Climate Action Fund dollars.



A young girl with dark hair, wearing a black helmet, a bright orange t-shirt, and blue and white plaid shorts, is roller skating on a paved street. She is smiling and has her arms outstretched for balance. In the background, there are red buildings, a white van, and several orange traffic cones on the ground. The scene is brightly lit, suggesting a sunny day.

ioby mobilizes neighbors who have good ideas to become powerful citizen leaders who plan, fund and make positive change in their own neighborhoods.

We are creating a future in which our neighborhoods are shaped by the powerful good ideas of our own neighbors.



RESILIENT
CLE 

We identify projects, programs, policies, engagement strategies, and future research to lessen overall demand for energy, anticipate and prepare for climate changes and shocks, and foster social cohesion.

From Resident Priorities to Climate Actions



SUSTAINABLE
CLEVELAND 2019

Learn More. Say More. Do More Workshop Series

December 2017 - April 2018

Feedback

Vacant land
and illegal
dumping

Safe and
clean streets
and places

Good Jobs,
Green Jobs

About

Healthy,
affordable
housing and
lower utility
bills

Healthy,
affordable
food and less
food waste

Youth
Engagement
& Education

About

Over 300
attendees

130 Survey
Responses

12
neighborhoods

HOUGH



What residents like best:
proximity to work and public institutions such as museums

What they are most committed to changing: safety, planting trees to replace old ones, recycling, composting, eliminating plastic bags, gardening for local food justice

COLLINWOOD



What residents like best:
walkability and community involvement

What they are most committed to changing: adding green spaces, group efforts

DETROIT SHOREWAY



What residents like best:
access to the lake, the arts, friendly neighbors, housing stock, access to resources and small business support, child-friendly

What they are most committed to changing:
street lighting for safety, equity in transportation and education, resident engagement, green jobs, cleanliness, resilience during extreme weather

OLD BROOKLYN



What residents like best:
diversity, affordability, location, sense/pride in community

What they are most committed to changing: community engagement, more trees & tree planting, less pollution, increased education on link between humans and nature

KAMM'S CORNERS



What residents like best:
history, charm, cost of living, connected and close, pride in homes and gardens, neighbors, parks

What they are most committed to changing: safety, litter, bike lanes

GLENVILLE



What residents like best:
Cultural Gardens, access to the lake, neighbors looking out for one another

What they are most committed to changing: health, illiteracy, safety, vacant land and homes, healthy food access, keeping residents in their homes

SLAVIC VILLAGE



What residents like best:
parks, easy access to City/jobs, diverse, historic

What they are most committed to changing: safety, beautification, poverty, crime, dumping

CLARK-FULTON



What residents like best:
diversity, walkability, sense of community

What they are most committed to changing: crime, drugs, trees, building and keeping community

BUCKEYE-LARCHMERE



What residents like best:
close to Shaker Square - access to events and farmers markets, public transportation to the city, parks,

BUCKEYE-LARCHMERE



What residents like best:
close to Shaker Square - access to events and farmers markets, public transportation to the city, parks, restaurants, independent/small business, schools

What they are most committed to changing: empty lots to community gardens, litter clean up, education and organizing

LEE-HARVARD

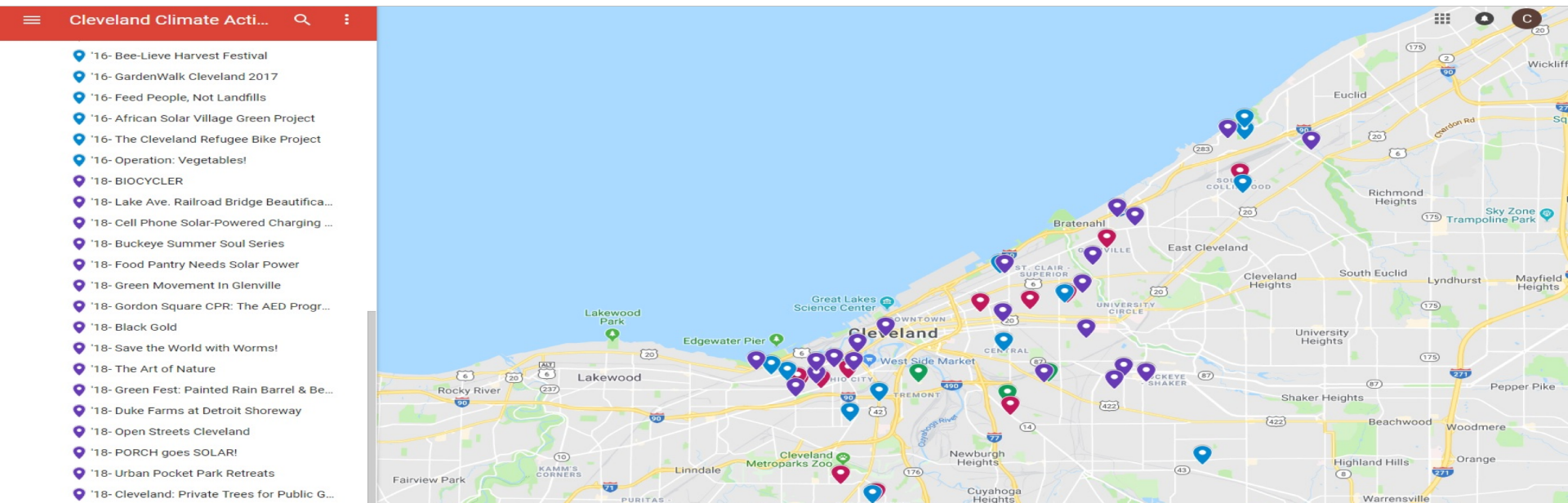


What residents like best:
suburban environment, places to shop, schools and churches

What they are most committed to changing: crime, healthy food access

Resident-led, neighborhood-based climate action projects

- ioby (in our backyard) platform used for crowdfunding
- 40+ project ideas developed out of the neighborhood workshops
 - Over two rounds, 20+ projects received match funding
 - 1:1 match from Cleveland Climate Action Fund





BIOCYCLER

Inspired by nature and using natural organisms redhouse studio aims to recycle building waste right here in Cleveland, Ohio. Help support this proof of concept to mitigate construction waste, and build sustainably.

NEEDS: \$0 of 8,675 + VOLUNTEERS



Lake Avenue Railroad Bridge Beautification

Lets work toward a more inviting link to Edgewater Park!

NEEDS: \$0 of 5,700 + VOLUNTEERS



Cleveland: Private Trees for Public Good

Bringing Arbor Day Foundation's Community Canopy program to Cleveland to connect home and business owners with trees and tree experts

NEEDS: \$4,315 of 5,435 + VOLUNTEERS



Cell Phone Solar-Powered Charging Station

Solar-powered cell phone charging station lets homeless folk stay connected to the larger world surrounding them.

NEEDS: \$0 of 1,030 + VOLUNTEERS



Buckeye Summer Soul Series

We're looking to build community on vacant lots!

NEEDS: \$4,665 of 5,185 + VOLUNTEERS



Food Pantry Needs Solar Power

Help us bring Solar Energy to Garden Valley Neighborhood House!

NEEDS: \$0 of 5,435 + VOLUNTEERS

Public Comment

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Cleveland Climate Action Plan

Building Thriving and Resilient Neighborhoods For All - Public comment open through Aug. 5, 2018!

We're ready for more input! Please click ANYWHERE (NO REGISTRATION REQUIRED) on the documents on this page to leave a comment. Please submit input by August 5, 2018. The full DRAFT plan is offered for public review as well as the List of Appendices (A-F).



Climate Action Plan - Full DRAFT

We are in the final stages of updating the citywide Community Climate Action Plan. To date, we have held over 20 community meetings and engaged over 400 individuals in the Climate Action Plan Update process. This includes 90+ Climate Action Advisory Committee members (with resident climate ambassadors) and approximately 300 more residents through our Learn More, Say More, Do More climate workshop series. This final round of public comment will be open until August 5th, 2018!

About Public Comment in the Cleveland Climate Action Plan

Cleveland is truly a city of neighborhoods. Lasting climate action requires planning, engagement, and implementation at the neighborhood level.

Our workshops provided a key engagement platform for the Climate Action Plan (CAP) update process. Over six months and 12 workshops/forums, more than 300 attendees voiced priorities for themselves, their family, and neighborhood. At each workshop, facilitators and participants alike represented Cleveland's diverse population and worked together to identify priorities - many of which are seen in the CAP through objectives that address vacant land, safety, and health. These priorities were also connected to climate action. The Cleveland Climate Action Plan will be supporting more than 20 resident-led neighborhood-based projects!

[Support](#)

APPENDIX A: Cleveland's Greenhouse Gas

Equity

In recent years, negative effects of climate change such as extreme storms and flooding have been shown to disproportionately impact communities of color and low-income communities¹. For example, low-income populations and communities of color are more likely to²:

- Live in areas with less green space and to be more vulnerable to heat related and respiratory illnesses
- Be impacted by extreme weather events that occur as a result of climate change due to low access to key information and available programs and services as a result of language, cultural, or geographic barriers
- Have less access to healthy and energy efficient housing, transit, or safe bicycling and walking routes
- Spend a disproportionate amount of their annual income on energy costs (13.3% compared to 3.3% for non-low income households)

These are among the reasons that equity serves as the main thread that ties this plan together. One of the advantages of organizing around climate action is that strategies to reduce GHGs and adapt to climate change create many other quality of life benefits. For example, investing in cleaner transportation options also improves air quality and creates safer, more walkable streets, thereby increasing the health and well-being of residents. Prioritizing actions within communities of color will have a greater impact because they have traditionally been impacted disproportionately by pollution sources and development patterns that both contribute to climate change.

Equity: Understanding and giving people what they need to enjoy full, healthy lives. Racial equity, in particular, is the condition that would be achieved if one's race no longer predicted how one fares³



Cleveland Climate Action Plan: Racial Equity Tool

Appendix A



List of Appendices



All appendices can be accessed at the following URL:
https://www.sustainablecleveland.org/climate_action

APPENDIX A:

Cleveland Climate Action Plan Racial Equity Tool

A framework to be used prior to making decisions within city government and other institutions looking to advance racial equity and shared prosperity.

APPENDIX B:

Green Jobs / Workforce Development Analysis

A baseline methodology for monitoring the impact that implementation of the CAP has on employment over time.

APPENDIX C:

Climate and Social Vulnerability Assessment

This assessment and template overlaps social factors with climate factors to determine geographies and populations most vulnerable to the negative impacts of climate change.

APPENDIX D:

City of Cleveland Greenhouse Gas Inventory: An Analysis of Citywide Emissions for 2010-2016 [Final Report: August 2018]

Cleveland's Carbon Footprint (including progress since 2010 and future projections)

APPENDIX E:

Climate Action Implementation Plans

Detailed action steps, key implementers, indicators to measure progress, and other notes.

APPENDIX F:

Corporate Environmental and Social Governance Analysis

An analysis of publicly available environmental and social governance (ESG) data for the largest public companies in Northeast Ohio.

Sustainability: T
Journal of Reco

The Cleveland CAP Racial Equity Tool is made up of 5 **question areas** that help determine the extent to which proposed climate action objectives and corresponding actions prioritize equity. The CAP also acts as an aid for building an implementation strategy.

1. **Language**
2. **Accountability & Data**
3. **Disproportional Impacts**
4. **Economic Opportunity**
5. **Neighborhood Engagement** (see 'Spectrum of Engagement" below)

1. NEIGHBORHOOD ENGAGEMENT

How communities have informed or co-designed this objective and its corresponding actions

KEY QUESTIONS:

How have communities been engaged (refer to 'Engagement Continuum')? Specifically, have communities of color been engaged? Are there opportunities to expand engagement? Does the proposed objective and its corresponding actions align with and support existing neighborhood priorities (refer to neighborhood workshops if possible)?

2. DATA & ACCOUNTABILITY

Determining the available data concerning inequities, its ability to illuminate the extent to which a climate objective drives desired results, and who is accountable

KEY QUESTIONS:

What is the best indicator to track the outcome we are looking for? What is the current data collected and what does the data tell us? Is the data disaggregated to illuminate disparity (by race, age, ethnicity, gender, sexual orientation, language, income, etc.)? Who is accountable?

3. DISPROPORTIONAL IMPACTS

Anticipating disproportionate impacts

KEY QUESTIONS:

Who will benefit/be burdened by this objective and its corresponding actions? Is there a geographic priority for this action in an identified vulnerable geography?

4. ECONOMIC OPPORTUNITY

The ability to provide equitable economic benefit via training, jobs, and contracts

KEY QUESTIONS:

Does the proposed objective and its corresponding actions support communities of color and low-income populations through workforce development, contracting opportunities or the increased diversity of employees/staff across any sectors?

5. LANGUAGE

The objective and its corresponding actions under consideration and their wording

KEY QUESTIONS:

Is this objective and its corresponding actions explicitly addressing factors of equity or racial equity in particular? Is the language easily understood and will it resonate with the community?

How does the Cleveland Climate Action Racial Equity Tool work?

As a result of going through this tool's set of questions, climate objectives and actions can fall into one of the following three categories that rate the extent they advance equity.

REVIEWERS

(please write down first and last name):

As a result of using this tool, the proposed climate objective:

is rated:



SIGNIFICANT:

At least half of the actions under this objective advance equity. Keep as is. Clearly advances equitable outcomes, proceed with this climate action.



MODERATE:

At least one action under this objective advances equity. Refine to more explicitly advance equity. These actions should be brought back to the Equity and Neighborhood Engagement Subcommittee for input and/or people this action may impact, including people of color, elderly, English as a second language population, etc.



INSIGNIFICANT:

No actions under this objective advance equity. Rewrite with corrective action. Proceeding without making substantial changes is not recommended.

Lessons Learned

- Creating a shared understanding around equity and mitigation v. adaptation priorities
- Alignment with community engagement organizations
- Ambassador models are powerful and mean the most during engagement



Next Steps

- Institutionalized Racial Equity
- Incorporation into Sustainable Cleveland Summit, Sept 20-21
- Implementation:
 - Climate & Social Vulnerability Assessment
 - Energy, especially in comm. buildings
 - Electric vehicles
 - Financing / Green Banks
 - Etc.

